

ABSTRACT

A laser strikes and aseptically heats or sterilizes the end of two flexible tube ends for connection. Tube holders are pushed toward each other to bring the tube ends into contact. A weld detector checks the characteristics of the weld. A laser optics
5 assembly may be used to change the direction of the laser and focus the laser at the tube ends. In addition, a crimping device is used to compress a single flexible tube for disconnection. The laser strikes the compressed area. The crimping device continues to pinch the area and forms a seal in the tube. The tube is separated into two tube segments, each segment has a sealed end.